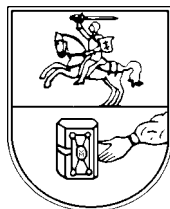


VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS
FAKULTETAS



VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS
AND INFORMATICS

Research
and
Publications
Report
2001

Naugarduko 24, 2600 Vilnius, Lithuania

Editor: V. Mackevičius

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Traditionally, the department unifies the researchers giving the courses of mathematical analysis (calculus) and related subjects for students of mathematics. In the last years, courses on actuarial and financial mathematics also were taught by the staff of the department. However, their research areas are somewhat different: probability limit theorems in infinite-dimensional spaces, asymptotic analysis of econometric models, stochastic analysis, complex variable function theory.

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The department supervises the software engineering track of education in informatics. The research areas of the department include software process, software engineering methods, software quality management, information systems modeling, geographic information systems, applied software systems, modeling of physical processes, document archiving, document configuration, semantics of loop programs operating with recurrences, speech, electronic signature.

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THESES FOR DOCTOR HABILITATUS

1. **R. Leipus**, Some problems of time series analysis and financial mathematics.

DOCTORAL THESES

1. **P. Kasparaitis**, Lithuanian text-to-speech synthesis. Scientific adviser doc. **A. Bastys**.
2. **K. Lapin**, Configuration of structured graphical documents: A case study in the domain of electroplating lines. Scientific adviser doc. **V. Čyras**.

PUBLICATIONS

Abbreviations:

- LMR* *Lietuvos Matematikos Rinkinys*
LMJ *Lithuanian Mathematical Journal**
NAMC *Nonlinear Analysis: Modelling and Control, ISSN 1392–5133*
 (Vilnius)
ProcLMS–2001 Special issue of *Lietuvos Matematikos Rinkinys*, 2001, **41**: *Proceedings of XLII Conference of Lithuanian Mathematical Society, Klaipėda University, June 22–23, 2001.*

Monographs

1. **V. Bagdonavičius**** and M. Nikulin, *Accelerated Life Models. Modeling and Statistical Analysis*, Chapman & Hall/CRC, New York, 2001, 334 p.
2. **Š. Raudys**, *Statistical and Neural Classifiers: An Integrated Approach to Design*, Springer, London, 2001, 312 p.

Articles

1. **A. Adamonis**, Software maintenance process in the large scale project, *Proc. Conf. Information Technology'2001*, Technologija, Kaunas, 2001, p. 325–330.
2. **V. Bagdonavičius** and M. Nikulin, Estimation in degradation models with covariates, *Lifetime data analysis*, 2001, **7**, p. 85–103.
3. **V. Bagdonavičius** and M. Nikulin, On goodness-of-fit for accelerated life models, *C. R. Acad. Sc. Paris*, 2001, **332**, Ser. I, p. 171–176.
4. **V. Bagdonavičius** and M. Nikulin, Estimation of cycling effect on reliability, In: *Probability and Statistical Models with Applications (Eds. Ch. A. Charalambides, M. V. Koutras, and N. Balakrishnan)*, Chapman and Hall/CRC, 2001, p. 537–545.
5. **V. Bagdonavičius** and M. Nikulin, Mathematical models in the theory of accelerated experiments, In: *Mathematics and the 21st Century (Eds. A. A. Ashour, A-S. F. Obada)*, World Scientific, 2001, p. 271–303.
6. **V. Bagdonavičius**, **A. Bikelis**, **M. Meilūnas**, and D. Stoškuvienė, On the human's vital functions degradation modelling, *Math. Modeling and Analysis*, 2001, **6**(1), p. 28–38.

**Lithuanian Mathematical Journal* is a completely English version (published by Kluwer Academic/Plenum Publishers and, until 1997, by Plenum Publishing Corporation) of *Lietuvos Matematikos Rinkinys*; in the latter, articles are in Russian (about 60%), in English (40%), and, episodically, in French and German.

**Boldface print is used for emphasizing the names of the faculty members.

7. **V. Bagdonavičius, A. Bikelis, and V. Kazakevičius**, Large sample properties of the tire wear rate and failure intensities estimates, *ProcLMS–2001*, p. 423–430.
8. **V. Bagdonavičius** and M. Nikulin, Goodness-of-fit tests for the generalized additive risk models, In: *Asymptotic Methods in Probability and Statistics with Applications (Eds. N. Balakrishnan, I. Ibragimov, and V. Nevzorov)*, Birkhauser, Boston Berlin, 2001, p. 385–394.
9. **G. Bareikis**, The Selberg sieve method in the polynomial set, *ProcLMS–2001*, p. 39–44.
10. **R. Baronas, F. Ivanauskas, and M. Sapagovas**, The influence of wood specimen geometry on moisture movement during drying, *Wood and Fiber Science*, 2001, **33**(2), p. 166–172.
11. **R. Baronas and F. Ivanauskas**, Reducing of dimensionality in modelling of moisture diffusion process in porous solid, *Structural Mechanics, Proc. XIV Nordic Sem. Computational Mechanics, Lund, October 19–20, 2001* (Eds. L. Beldie, O. Dahlblom, A. Olsson et al), LTH, Lund University (Sweden), 2001, p. 97–100.
12. **R. Baronas, F. Ivanauskas, and M. Sapagovas**, Numerical investigation of moisture movement in wood under isothermal conditions, *Math. Modelling and Analysis*, 2001, **6**(2), p. 167–177.
13. **R. Baronas, F. Ivanauskas, I. Juodeikiene, and A. Kajalavičius**, Modelling of Moisture Movement in Wood During Outdoor Storage, *NAMC*, 2001, **6**(2), p. 3–14.
14. **A. Bastys, I. Blužaitė, J. Blužas, Sv. Kaminskienė, A. Matiukas, M. Tamošiūnaitė, G. Urbonavičienė, and J. R. Vaišnys**, Computerized approach for revealing coronary artery stenosis, *New Trends in Research, Diagnosis and Treatment. Proc. II Intern. Congress on Heart Disease, July 21–24, 2001, Washington*, p. 375–379.
15. **A. Bastys, J. Blužas, L. Gargasas, Sv. Kaminskienė, G. Urbonavičienė, and A. Matiukas**, Computer–based prognosis of coronary artery stenosis, *Sem. Cardiology*, 2001, **7**(3), p. 30–32.
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6. **V. Čekanavičius**, The Stein method for discrete approximations.
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9. **V. Daukšas**, An optimality criteria for the problem of correction of a linear system trajectory.
10. **J. Degutis**, On expansion of a function by eigenfunctions of an operator of order n .
11. **A. Domarkas**, On polynomial solutions of some equations of mathematical physics.
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15. **P. Golokvosčius**, The asymptotic stability of solutions of a periodic differential equation of the second order.

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17. **J. Ignatavičiūtė**, A limit theorem for the Hurwitz zeta-function on the space of meromorphic functions.
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20. **H. Jasiūnas**, The works in mathematics by associate-professor Petras Rumšas (the 80th anniversary).
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23. **R. Kačinskaitė**, Discrete value distribution of the Matsumoto zeta-function.
24. **R. Kašuba** and J. J. Mačys, 50 years of Lithuanian mathematical olympiads (plenary lecture).
25. **R. Kašuba**, What is a simple but exciting problem?
26. **A. Kavaliauskas**, Bifurcation analysis of one biological system.
27. **A. Kavaliauskas**, Determination of the instability area of a system by using the expansion of an n th order determinant by k th order determinants.
28. D. Krapavickaitė and **J. Turkuvienė**, Estimation of sums in an asymmetric finite population.
29. **J. Kubilius**, Several formulas of classical type.
30. **R. Kudžma**, Parabolas in mathematics and literature.
31. **R. Lapinskas** and **R. Verikaitė**, Population projection: a parametric approach.
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39. **V. Maniušis**, New symmetry tests.
40. **E. Manstavičius**, Dependent random variables in numeration systems.
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42. **G. Misevičius**, Limit theorems for N -dimensional endomorphisms.
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50. **V. Stakėnas**, Metrical properties of sequences of positive integers.
51. **E. Stankus**, Asymptotic problems of generalized Beurling's numbers.
52. **G. Stepanauskas**, Local laws for additive functions.
53. **D. Sūdžiūtė**, Nash equilibria in the context of convex sets.
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55. **D. Šiaučiūnas**, The asymptotics of the mean square of the periodic zeta-function on the critical line.
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59. **V. Verikaitė**, The works of teacher Juozas Damijonaitis (1871–1926) for Lithuanian school.
60. **V. Zacharovas**, Convergence rate in CLT on the symmetric group in the case of Ewens sampling formula.
61. **S. Zubė**, C -box splines.

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- APMNT–2001 *III International Conference in Palanga “Analytic and Probabilistic Methods in Number Theory” dedicated to the 80th anniversary of Professor Jonas Kubilius, September 24–28, 2001*
- LNCP–2001 *XXXIV Lithuanian National Conference on Physics, June 14–16, 2001, Vilnius, Abstracts*
- MMA–2001 *VI International Conference “Mathematical Modelling and Analysis,” May 31–June 2, 2001, Vilnius, Abstracts*
- MPNTA–2001 *IV International Conference “Modern Problems of Number Theory and its Applications” dedicated to 180th anniversary of P. L. Chebysheff and 110th anniversary of I. M. Vinogradov, September 10–15, 2001, Tula, Russia, Abstracts*
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1. **M. Bloznelis**, Orthogonal decomposition of symmetric statistics. *Bielefeld University, December 12.*
2. **R. Krasauskas**, Geometric modeling and toric surfaces, *Sem. Department of Computer Science, Aalborg University, Denmark, December 7.*
3. **R. Krasauskas**, Toric surfaces in geometric modeling, *Sem. Department of Applied Geometry, Johannes Kepler University, Linz, Austria, October 24.*
4. **A. Laurinčikas**, Limit theorems for the Riemann zeta-functions, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, May 9.*
5. **A. Laurinčikas**, The universality of zeta-function, *Hannover technische Universität, Germany, May 15.*
6. **A. Laurinčikas**, On the universality of Dirichlet series attached to certain cusp forms, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, May 21.*
7. **A. Laurinčikas**, The universality of Dirichlet series with multiplicative coefficients and the problem of effectivization, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, May 23.*
8. **A. Laurinčikas**, The universality of zeta-function of elliptic curves, *University of Cambridge Department of Pure Mathematics and Mathematical Statistics, July 19.*

9. **R. Leipus**, Testing long memory in stationary data: real and spurious inference, *University of Lille 1, France, November 14.*
10. **R. Leipus**, Stationarity in autoregressive conditionally heteroskedastic models, *University of Lille 3, France, November 27.*
11. **V. Paulauskas**, On random compact convex sets in Banach spaces, *Cornell University, USA, March 5.*
12. **A. Račkauskas**, Functional data analysis of payment systems, *Tilburg University, September 19.*
13. **A. Račkauskas**, Functional data analysis of payment systems, *University of Lille 1, France, October 7.*
14. **R. Šleževičienė**, Some aspects in the theory of the Estermann zeta-function. I, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, December 12.*
15. **R. Šleževičienė**, Some aspects in the theory of the Estermann zeta-function. II, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, December 19.*

SCIENTIFIC CONTACTS

Participation in international projects

1. **S. Dapkūnas, A. Mitašiūnas, S. Ragaišis.** *Development of Software for Occupational Accidents Tracking and Analysis.* Contract No. 44–2814 with National Labour Inspectorate of Lithuanian Republic. 2001 08–2002 04.
2. **S. Dapkūnas, A. Mitašiūnas, S. Ragaišis.** EU PHARE Twinning Project LI 9911.01: *Development of Software for National Labour Inspectorate of Lithuanian Republic.* Contract No. 2001/07/31–2809. 2001 08–2001 11.
3. **R. Baronas, F. Ivanauskas.** Framework-5. *Intelligent Signal Processing of Biosensor Arrays Using Pattern Recognition for Characterization of Wastewater: Aiming Towards Alarm Systems* (Intellisens, No. EN A 1 FP5RTD, Contract No. QLK3–2000–01481). 2000 10 01–2003 09 30.
4. **F. Ivanauskas.** Instruments and Standard Test Procedures for Laser Beam and Optics Characterization, Eureka-number EU2359 “Choclab II.” 2000–2002.
5. **A. Juozapavičius.** Wireless Information Management (an international network including Aalborg, Jyväskylä, Uppsala, Trondheim, Vilnius, and Vilnius Technological Universities). Financing by NORFA (Nordic Academy of Advanced Studies). 2001 01–2003 12.
6. **R. Leipus, V. Paulauskas, A. Račkauskas.** Cooperation agreement CNRS/Lithuania *Limit theorems for stochastic processes constructed by dependent random variables.*
7. **M. Radavičius.** An expert of Phare project 1988 Sub-Project No. 5 *Preparation for the survey of the earnings structure and distribution.* Contract No. LI9803–04–01–003; Beneficiary: Department of Statistics (Lithuania); Contractor: World Systems (Europe) Limited (Luxembourg). 2000 05–2001 10.

Visits by staff

1. **V. Bagdonavičius.** Invited professor at the University Victor Segalen Bordeaux II (France). Research work in reliability theory and survival analysis. Lectures on probability theory and mathematical statistics. January 1–July 7.
2. **M. Bloznelis.** Bielefeld university. September–October.
3. **V. Čekanavičius.** Visiting professor in Taichung University (Taiwan). Invited lectures *Signed Poisson approximations* and *The convolution method.* November 25–December 11.
4. **R. Eidukevičius.** Visiting professor at University of Padua (Italy). Lecture course *Applications of computers in biology.* December 3–10.

5. **F. Ivanauskas.** Potsdam University, Berlin, Germany. International project *Intelissens*. November 3–6.
6. **F. Ivanauskas.** Paris, France. *Intern. Conf. Long Life Learning*. November 5–18.
7. **A. Juozapavičius.** Aalborg University, Denmark. *Wireless Information Management*. December 6–9.
8. **A. Juozulynas.** Bielefeld University, Germany. *Spectral Analysis and Stochastic Models*. June 1–November 30.
9. **R. Krasauskas.** Greifswald University. *Socrates programme*. April 28–May 3.
10. **R. Krasauskas.** Linz University, Austria. *Invited lecture*. October 21–28.
11. **R. Krasauskas.** Aalborg University, Denmark. *Socrates programme*. December 3–9.
12. **R. Kudžma.** Roskilde Business College. Lectures on Semiotics and Education. *Socrates/Erasmus*. June 12–15.
13. **A. Laurinčikas.** Research visit to Johan Wolfgang Goethe–Universität, Frankfurt am Main. April 30–May 29.
14. **A. Laurinčikas.** Research visit to Cambridge University under the auspices of the Cambridge Colleges' Hospitality Scheme for Central and Eastern European Scholars. July 2–27.
15. **R. Leipus.** Visiting professor at University of Lille 1, France. March, November.
16. **V. Paulauskas.** Visiting professor at Georgia Institute of Technology, Atlanta, USA. Lecture courses on probability theory and mathematical statistics. January 1–May 15.
17. **A. Račkauskas.** Laboratory of probability and statistics, University of Lille 1, France. November.
18. **A. Račkauskas.** Tilburg university, The Netherlands. September 17–23.
19. **G. Skersys.** Institut National de Recherche en Informatique et Automatique (INRIA), France. *Error-correcting codes*. December 2000–January 2001.
20. **R. Šleževičienė.** Research visit to Johan Wolfgang Goethe–Universität, Frankfurt am Main. October 12, 2001–January 10, 2002.

Foreign visitors

1. Prof. A. Andžans, Latvian University, Head of Latvian School Computerization Program, May 5–7. Lecture on *The system of supplementary mathematical education in Latvia* and *The Latvian school computerization program* at the joint seminar of Department of didactics of mathematics and Departments of computer science.
2. Prof. Eng-Wee Chionh, National University of Singapore. Lecture *Rectangular corner cutting and Dixon A-resultants*. January 13–18.
3. Michael Claudius, Roskilde Computer Science College. Lectures *OOAD a Danish cookbook* and *Modern IT-curriculum and OO-teaching*. September 27–28.
4. Prof. Ronald Goldman, Rice University, USA. Lecture *Implicitization using moving curves and surfaces*. January 13–18.
5. Prof. Christian S. Jensen, Aalborg University. Lecture *Databases for mobile communications*. June 8–14.
6. Huibert Kivits, Information Security Officer, ING Bank, The Netherlands. A course on *Information Security*. May 3–17.
7. Prof. Anne Philippe, University of Lille 1, France. Lecture *Bayesian model selection of ARMA processes*. September 17–28.
8. Dr. Jörn Steuding, J. W. Goethe–Universität, Frankfurt am Main. Lectures in the seminar of number theory on *Upper bounds for the density of universality*. March 3–25, August 13–October 5.
9. Prof. Marie-Claude Viano, University of Lille 1, France. Lecture *Does aggregating short-memory processes always produce long memory?* September 3–14.

GRANTS

1. **R. Baronas, F. Ivanauskas.** Lithuanian State Science and Studies Foundation grant Nr. A-524. European Commission 5th Framework Program Project No. QLRT-1999-31481 (VU,MII, VGTU).
2. **M. Bloznelis, A. Juozulynas, V. Mackevičius, A. Račkauskas.** Lithuanian State Science and Studies Foundation grant *Approximation and modeling of stochastic processes.*
3. **E. Gaigalas, A. Juozapavičius.** Lithuanian State Science and Studies Foundation grant No. 98819 to support the research project *Education of analyticians of nonlinear processes*, October, 1998–September, 2001.
4. **A. Laurinčikas, A. Dubickas, R. Garunkštis, R. Kačinskaitė, R. Stančikienė.** Lithuanian State Science and Studies Foundation grant No. 21019 to support the research project *The investigations of zeta-functions and polynomials.*
5. **R. Leipus, V. Paulauskas, A. Račkauskas.** Bilateral CNRS(France)–Lithuania grant to support the research project *Limit theorems for stochastic processes constructed by dependent random variables.*
6. **E. Manstavičius.** Lithuanian State Stipend (2001–2002).
7. **S. Ragaišis.** Lithuanian State Science and Studies Foundation grant No. A-524. European Commission 5th Framework Program Project No. QLRT-1999-31481
8. **V. Starikovičius.** EU Marie Curie grant.
9. **G. Stepanauskas, A. Mačiulis, J. Šiaulys.** Lithuanian State Science and Studies Foundation grant No. 21058 to support the project *Distributions of additive arithmetic functions.*

APPENDIX

Publications appeared in 1996–2000

Abbreviations:

- LMR* Lietuvos Matematikos Rinkinys
LMJ Lithuanian Mathematical Journal
NAMC Nonlinear Analysis: Modelling and Control, ISSN 1392–5133 (Vilnius)
Palanga–96 New Trends in Probability and Statistics. V. 4: Analytic and Probabilistic Methods in Number Theory. Proceedings of the Second International Conference in Honour of J. Kubilius, Palanga, Lithuania, September 23–27, 1996, Eds. A. Laurinčikas, E. Manstavičius, and V. Stakėnas, TEV/VSP, Vilnius/Utrecht, 1997.
- MMCA–97* Proceedings of International Conference on Mathematical Modelling and Complex Analysis, Vilnius, June, 1997, Ed. R. Čiegis, Technika, Vilnius, 1997.
- ProcLCS–97* Proceedings of VIII Conference of Lithuanian Computer Society, Birštonas, September 17–20, 1997.
- ProcLMS–97* Proceedings of XXXVIII Conference of Lithuanian Mathematical Society (a special supplement of Lietuvos Matematikos Rinkinys), Technika, Vilnius, 1997.
- ProcLMS–98* Proceedings of XXXIX Conference of Lithuanian Mathematical Society (a special supplement of Lietuvos Matematikos Rinkinys), Technika, Vilnius, 1998.
- Vilnius–98* Probability Theory and Mathematical Statistics: Proceedings of the Seventh Vilnius Conference (1998), Eds. B. Grigelionis et al., VSP/TEV, Utrecht/Vilnius, 1999.
- ProcLMS–99* Proceedings of XL Conference of Lithuanian Mathematical Society (a special supplement of Lietuvos Matematikos Rinkinys), Institute of Mathematics and Informatics, Vilnius, 1999.
- ProcLMS–2000* Special issue of Lietuvos Matematikos Rinkinys, 2000, **40**: Proceedings of XLI Conference of Lithuanian Mathematical Society, Šiauliai, June 22–23, 2000.
- FDS–2000* Proceedings of III International Conference “Finite Difference Schemes: Theory and Applications,” September 1–4, 2000, Palanga, Lithuania, Eds. R. Čiegis, A. Samarskii, and M. Sapagovas, IMI, Vilnius, 2000.
1. A. Apynis, E. Stankus, and J. Šinkūnas, The problems of education in mathematics *Proc. Conf. Mathematics and Teaching Mathematics, Kaunas Univ. of Technology, April 8–9, 1999*, Technologija, Kaunas, 1999, p. 5–10 (in Lithuanian).
 2. A. Apynis, E. Stankus, and J. Šinkūnas, The Lithuanian school for young mathematicians: reality and perspective, *ProcLMS–99*, p. 239–241 (in Lithuanian).
 3. A. Apynis, E. Stankus, and J. Šinkūnas, On seeing-off the first graduates of the Lithuanian school for young mathematicians, *ProcLMS–2000*, p. 207–208 (in Lithuanian).

4. **A. Apynis, E. Stankus,** and J. Šinkūnas, On realization of curriculum and problems of the Lithuanian school for young mathematicians, *Proc. Conf. Mathematics and Teaching Mathematics, Kaunas Univ. of Technology, April 6–7, 2000*, Technologija, Kaunas, 2000, p. 10–13 (in Lithuanian).
5. G. J. Babu and **E. Manstavičius**, Brownian motion for random permutations, *Sankhyā: The Indian Journal of Statistics*, 1999, **61**(3), p. 312–327.
6. G. J. Babu and **E. Manstavičius**, Limit theorems for random permutations, *Paul Erdős and His Mathematics: Res. Comm. Conf. in the memory of Paul Erdős, Budapest, Hungary, July 4–11, 1999, János Bolyai Math. Soc.*, p. 19–22.
7. G. J. Babu and **E. Manstavičius**, Random permutations and the Ewens sampling formula in genetics, *Vilnius–98*, p. 33–42.
8. **V. Bagdonavičius** and M. Nikulin, Models of accelerated life in survival analysis and reliability theory. Estimation and testing, *Statistique des Processus en Milieu Médicale*, 1996, p. 9–46.
9. **V. Bagdonavičius** and M. Nikulin, Analysis of generalized additive semiparametric models, *C. R. Acad. Sci.*, 1996, **323**, Serie I, p. 1079–1084.
10. **V. Bagdonavičius** and V. Nikoulina, A goodness-of-fit test for Sedyakin’s model, *Romanian J. Pure Appl. Math.*, 1997, **42**(1–2), p. 5–14.
11. **V. Bagdonavičius** and M. Nikulin, Transfer functionals and semiparametric regression models, *Biometrika*, 1997, **84**, p. 365–378.
12. **V. Bagdonavičius** and M. Nikulin, Asymptotic analysis of semiparametric models in survival analysis and accelerated life testing, *Statistics*, 1997, **29**, p. 261–283.
13. **V. Bagdonavičius** and M. Nikulin, Some rank tests for multivariate censored data, In: *Advances in the theory and practice of statistics: a volume in honour of Samuel Kotz*, Wiley & Sons, 1997, p. 193–207.
14. **V. Bagdonavičius** and M. Nikulin, Accelerated life testing when a process of production is unstable, *Stat. Probab. Letters*, 1997, **35**, p. 269–275.
15. **V. Bagdonavičius** and M. Nikulin, Statistical analysis of the generalized additive semiparametric model with random covariates, *Questio*, 1997, **21**(1–2), p. 273–291.
16. **V. Bagdonavičius** and M. Nikulin, Analysis of general semiparametric models with random covariates, *Romanian J. Pure Appl. Math.*, 1997, **42**(5–6), p. 351–369.
17. **V. Bagdonavičius** and M. Nikulin, Sur l’application des stress en escalier dans les expériences accélérées, *Comptes Rendus Acad. Sci. Paris*, 1997, **325**, Serie I, p. 523–526.
18. **V. Bagdonavičius** and M. Nikulin, On nonparametric estimation from accelerated experiments, In: *Proc. First Internat. Conf. Math. Methods in Reliability*, 1997, **2**, p. 288–296.
19. **V. Bagdonavičius** and M. Nikulin, Additive and multiplicative semiparametric models in accelerated life testing and survival analysis, *Queens Papers on Pure and Applied Mathematics*, Kingston, Ontario, Canada, 1998, **108**, p. 1–110.
20. **V. Bagdonavičius** and M. Nikulin, Estimation in generalized proportional hazards model, *CR l’Académie des Sciences de Paris*, 1998, **326**, Serie I, p. 1415–1420.

21. **V. Bagdonavičius**, V. Nikulina, and M. Nikulin, Bolshev's method of confidence limit construction, *Questio*, 1998, **21**(3), p. 549–562.
22. **V. Bagdonavičius**, S. Malov, and M. Nikulin, Characterizations and parametric regression estimation in Archimedean copulas, *J. Appl. Stat. Sc.*, 1999, **89**(2/3), p. 137–154.
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24. **V. Bagdonavičius** and M. Nikulin, Model building in accelerated experiments, In: *I. Ionescu, N. Limnios (Eds) Statistical and Probability Models in Reliability*, 1999, Birkhauser, Boston, p. 51–73.
25. **V. Bagdonavičius** and M. Nikulin, Modified partial likelihood in generalized Cox model, *Lifetime Data Analysis*, 1999, **5**, p. 323–344.
26. **V. Bagdonavičius** and M. Nikulin, Semiparametric estimation in the generalized additive-multiplicative model, *J. Math. Sc.*, 2000, **99**(2), p. 1017–1030.
27. **V. Bagdonavičius** and M. Nikulin, Modèle statistique de dégradation avec des covariables dépendants du temps (Statistical model of degradation with time dependent covariates), *C. R. Acad. Sci. Paris, Ser. I, Math.*, 2000, **330**(2), p. 131–134.
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29. **V. Bagdonavičius** and M. Nikulin, On goodness-of-fit for the linear transformation and frailty models, *Stat. Probab. Letters*, 2000, **47**(2), p. 177–188.
30. **V. Bagdonavičius** and M. Nikulin, On nonparametric estimation in accelerated experiments with step-stresses, *Statistics*, 2000, **33**(4), p. 349–365.
31. **V. Bagdonavičius** and M. Nikulin, Semiparametric estimation in accelerated life testing, In: *Recent Advances in Reliability Theory. Methodology, Practice and Inference (Eds. N. Limnios and M. Nikulin)*, 2000, Birkhauser, Boston, p. 405–418.
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33. **G. Bareikis**, Multiplicative functions and stochastic processes, In: *Palanga-96*, p. 271–282.
34. **G. Bareikis** and **E. Manstavičius**, Functional limit theorems in the M -scheme, *LMR*, 1997, **37**(2), p. 139–154 (in Russian); *LMJ*, 1997, **37**(2), p. 108–118.
35. **G. Bareikis** and **E. Manstavičius**, Multiplicative functions and random processes, *LMR*, 1997, **37**(4), p. 413–425 (in Russian); *LMJ*, 1997, **37**(4), p. 310–319.
36. **G. Bareikis** and K.-H. Indlekofer, Multiplicative processes in short intervals, *LMR*, 1999, **39**(2), p. 185–199; *LMJ*, 1999, **39**(2), p. 146–156.
37. **G. Bareikis**, K.-H. Indlekofer, Arithmetic processes on the set of shifted primes, *LMR*, 1999, **39**(4), p. 441–460; *LMJ*, 1999, **39**(4), p. 349–364.
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39. **G. Bareikis**, An analogue of the Kubilius inequality for the polynomial semigroup, *ProcLMS-2000*, p. 11–17 (in Lithuanian).
40. **R. Baronas, M. Plukas, A. Svirskas, and R. Vaicekauskas**, Archiving and retrieval of multimedia documents. Experience of system design and perspectives, *ProcLCS-97*, p. 50–55 (in Lithuanian).
41. **R. Baronas, F. Ivanauskas**, and J. Kulys, Modelling of a microreactor on heterogeneous surface and an influence of geometry to microreactor operation, *NAMC*, Vilnius, 1998, **3**, p. 19–30.
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44. **R. Baronas, F. Ivanauskas**, and M. Sapagovas, Modelling of wood drying and an influence of lumber of geometry on drying dynamics, *NAMC*, 1999, **4**, p. 11–22.
45. **R. Baronas and S. Narkevičius**, Estimation of resource needs for document capture, *Proc. IX Conf. Lith. Computer Soc., Birštonas, September 16–18, 1999*, p. 14–21 (in Lithuanian).
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51. **A. Bastys**, Orthogonal and biorthogonal scaling functions with good translation invariance characteristic, *SAMTA'97 (Intern. Workshop Sampling Th. Appl., Aveiro, Portugal)*, p. 239–244.
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58. D. Beresnevičienė, **R. Eidukevičius**, M. Markovienė, Self-esteem, psychological wellbeing at school and anxiety in middle childhood, *Educational Psychology*, 1999, **2**(2), p. 13–19 (in Lithuanian).
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VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS
VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS AND INFORMATICS
Research and Publications Report 2001
Mokslinis darbas ir publikacijos 2001 m.
Redaktorius V. Mackevičius
Anglų kalba

2002 04 02. 3,5 leidyb. apsk. l. Rinko ir maketavo D. Jonutienė. VU Matematika-
tikos ir informatikos fakultetas, Naugarduko 24, 2600 Vilnius. Nemokamai.